

# SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0387  
CALIBRATION DATE: 28-Jan-09p

SBE 43 OXYGEN CALIBRATION DATA

**COEFFICIENTS**

Soc = 0.3960  
Voffset = -0.4822  
Tau20 = 1.23

A = -9.3887e-004  
B = 1.3472e-004  
C = -2.7084e-006  
E nominal = 0.036

**NOMINAL DYNAMIC COEFFICIENTS**

D1 = 1.92634e-4 H1 = -3.30000e-2  
D2 = -4.64803e-2 H2 = 5.00000e+3  
H3 = 1.45000e+3

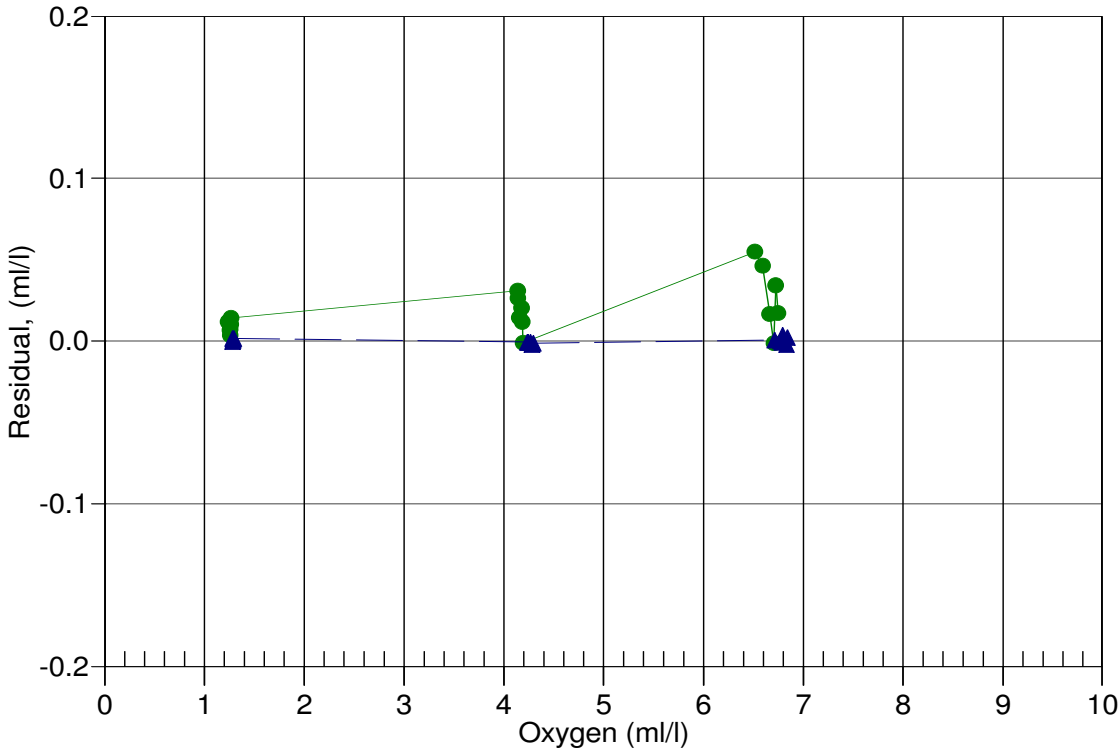
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.28	2.00	0.00	0.817	1.28	-0.00
1.28	12.00	0.01	0.910	1.28	0.00
1.28	20.00	0.01	0.984	1.28	0.00
1.28	6.00	0.01	0.855	1.28	0.00
1.29	26.00	0.02	1.044	1.29	0.00
1.29	30.00	0.02	1.087	1.29	0.00
4.23	26.00	0.02	2.328	4.23	-0.00
4.24	20.00	0.01	2.143	4.24	-0.00
4.25	30.00	0.02	2.469	4.24	-0.00
4.26	12.00	0.01	1.904	4.26	-0.00
4.28	6.00	0.01	1.723	4.28	-0.00
4.29	2.00	0.00	1.603	4.29	-0.00
6.71	30.00	0.02	3.623	6.71	0.00
6.77	26.00	0.02	3.436	6.77	-0.00
6.78	20.00	0.01	3.139	6.78	-0.00
6.79	12.00	0.01	2.750	6.79	0.00
6.83	6.00	0.01	2.463	6.83	-0.00
6.84	2.00	0.00	2.270	6.84	0.00

Oxygen (ml/l) = Soc \* (V + Voffset) \* (1.0 + A \* T + B \* T<sup>2</sup> + C \* T<sup>3</sup>) \* OxSol(T,S) \* exp(E \* P / K)

V = voltage output from SBE43, T = temperature [deg C], S = salinity [PSU] K = temperature [deg K]

OxSol(T,S) = oxygen saturation [ml/l], P = pressure [dbar], Residual = instrument oxygen - bath oxygen

Date, Delta Ox (ml/l)



● 30-Jul-08p 0.9958  
▲ 28-Jan-09p 1.0000